

Icom America Systems

CROSSBAND REPEATER

X ↔ BAND 50



## BRIDGING THE GAP BETWEEN BANDS

### Crossband Communications

#### Powerful Crossband Capability

- Full UHF and VHF interoperability; provides seamless inter-band communications. Inter-agency communications just got easier!
- 50 Watts VHF; 45 Watts UHF
- Local controlled operation; can also be used as a dual base unit (with optional mic)
- Feature rich; affordable price

#### Maximum Frequency Flexibility / Alpha Tag Your Channels

- 128 Memory channels with 8 memory banks per radio
- 8-Character alphanumeric display / easy to read

#### AC to DC Auto Select, 220/110/12V Capable

Power failure? Not a problem. The X-Band 50 is configured to auto switch from AC to DC

*(Batteries not included)*

#### Compact Size

Set the X-Band 50 on a desktop, or mount it in a 19" industry standard rack.



*Radios, controller, and power supply, all in one box. Dual forced-air fans keep the unit cool. 19" Rack mountable. Battery backup capable.*



*A clean rear panel design allows for easy setup and operation. An options connector allows for customized applications such as Interconnect, CWID, and more.*



UHF



VHF



UHF and VHF Interoperability

**ADDITIONAL FEATURES**

**Advanced Multi 2-Tone/5-Tone Systems**

- Programmable actions when a matched tone is received
  - Bell icon indication ON/OFF/blink
  - Answer back calls
  - Beep sounds
  - Scan start/stop
  - Auto transmission
  - Stun/kill functions (prevents use of a lost or stolen radio)
  - External out for horn drive (optional OPC-617 is required)
- 32 Tx and 9 Rx 5-Tone codes available
- 11 Tx and Rx 2-Tone codes available

**Other Features**

- 10 scanning lists and normal/priority scan
- Power ON password
- Backlit LCD and keys for night time operations
- Meets MIL-STD 810 C, D, E and F specifications

**SPECIFICATIONS**

GENERAL	
•Frequency coverage	: VHF 136-174MHz : UHF 440-490MHz
•Number of channels	: 128 channels/8 banks per side
•Channel spacing	: 12.5/25kHz, 15/30kHz
•PLL channel step	: VHF 2.5, 3.125kHz : UHF 5, 6.25kHz
•Frequency stability	: VHF ±5.0 ppm : UHF ±2.5 ppm
•Operating temp. range	: -30°C to +60°C; -22°F to +140°F
•Power supply voltage	: 13.6 V DC
•Current drain (approx.)	: Tx VHF (50W) 14 A : UHF (45W) 13A : Rx max. Audio 1200mA stand-by 300mA
•Antenna impedance	: 50Ω (SO-239)
•Dimensions (WxHxD)	: 482.6 x 127 x 393.7mm 19" x 5" x 15.5"
•Weight	: 8.6kg; 19 lbs

TRANSMITTER	
•Output power	: VHF 50W (at 13.6V DC) UHF 45W
•Max. frequency deviation	: ±5.0/±2.5 kHz (wide/narrow)
•Spurious emission	: 70 dB typ.
•Adjacent Ch. power	: 70/60dB (wide/narrow)
•Mic. impedance	: 600Ω (8-pin modular)

RECEIVER	
•Sensitivity	: 0.25 μV typ. (at 12dB SINAD)
•Squelch sensitivity	: 0.25 μV typ.
•Adjacent ch. selectivity	: 75/65dB typ. (wide/narrow)
•Spurious response	: 75dB
•Intermodulation (typical)	: VHF 74dB typ. : UHF 75dB typ.
•Audio output power	: 4W typical at 10% distortion with a 4Ω load
•External SP connector	: 2-conductor 3.5 (d) mm (1/8")/4Ω

**Applicable U.S. Military Specifications**  
The X-Band 50 meets (MIL-STD requirements and strict environmental standards for shock MIL 810 C, D, E and F) and vibration (MIL 810 C, D, E and F).

Supplied Accessories	
• AC Power Cord	• DC Power Cord

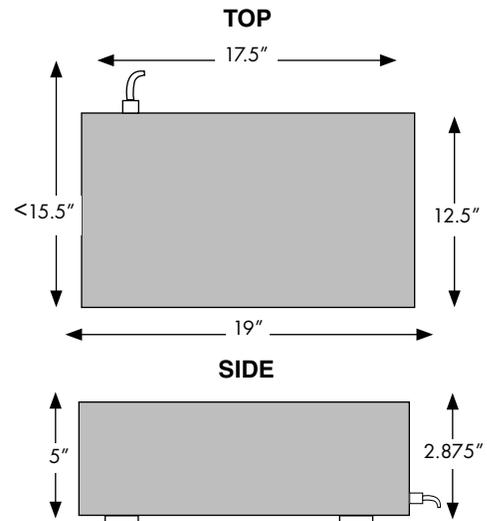
**OPTIONS**



•HM 100TN DTMF MICROPHONE



•SM-25 DESKTOP MICROPHONE  
Convenient for dispatching, equipped with monitor switch.



Additional crossbanding configurations available, such as AM(VHF) to FM(UHF).  
Call Icom America Systems for more information.

**Icom America Systems**

Systems for People Who Make Smart Choices

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